

Title (en)
INNER TUB LOCK MECHANISM AND WASHING MACHINE

Title (de)
INNENWANNENSCHLOSSMECHANISMUS UND WASCHMASCHINE

Title (fr)
MÉCANISME DE VERROUILLAGE DE CUVE INTERNE ET MACHINE À LAVER

Publication
EP 3369853 A1 20180905 (EN)

Application
EP 16859045 A 20161027

Priority
• CN 201510718611 A 20151029
• CN 2016103553 W 20161027

Abstract (en)
The present disclosure relates to a locking mechanism of an inner tub and a washing machine. The locking mechanism (300) comprises a locking rod (302) capable of reciprocating along an axial direction, a slideway (304) for the movement of the locking rod (302) and a driving unit for driving the locking rod (302) to move, the driving unit comprises a link, a crank and a rotating motor (324); wherein, a bearing (340) is mounted between the locking rod (302) and the slideway (304). The bearing (340) which mounted between the locking rod (302) and the slideway (304), is to reduce the friction between the locking rod (302) and the slideway (304), and to prevent the locking rod (302) from moving unsmooth that caused by got stuck from the slideway (304). When the crank rotates to 90° or 270°, and the friction between the locking rod (302) and the slideway (304) is maximum, the locking rod (302) is ensured to move smooth.

IPC 8 full level
D06F 39/00 (2006.01)

CPC (source: CN EP KR US)
D06F 37/26 (2013.01 - CN KR); **D06F 37/302** (2013.01 - KR); **D06F 37/42** (2013.01 - CN EP KR US); **D06F 39/12** (2013.01 - KR);
D06F 37/267 (2013.01 - EP US); **D06F 37/302** (2013.01 - CN EP US)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3369853 A1 20180905; **EP 3369853 A4 20181205**; **EP 3369853 B1 20200812**; CN 106637820 A 20170510; CN 106637820 B 20190730;
JP 2018531742 A 20181101; JP 6718580 B2 20200708; KR 102091703 B1 20200323; KR 20180071333 A 20180627;
US 2018347094 A1 20181206; WO 2017071610 A1 20170504

DOCDB simple family (application)
EP 16859045 A 20161027; CN 201510718611 A 20151029; CN 2016103553 W 20161027; JP 2018521914 A 20161027;
KR 20187014192 A 20161027; US 201615771474 A 20161027